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26 NOV 56

## MEMORANDUM TO THE FILE

SUBJECT: Trip Report to [REDACTED]

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On Monday, 26 November, [REDACTED] of  
OC-E met with [REDACTED] to discuss the follow-  
ing four projects:

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Project #1 - [REDACTED] was requested to plot power  
output versus frequency of the URT-11 transmitter that they are  
presently working on.

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Project #2 - Determine if the 231-D model 20 transmitter  
range could be extended from 26 to 28 megacycles without major  
modification and to report the results of this study soon. If  
extending the range requires major changes, the study should  
then be made to extend the range up to 30 megacycles.

Project #3 was to have them give a professional evaluation  
of the synchronous detection and double side band suppressed  
carrier communications system. This study was to indicate just  
what advantages could be expected when using this type of system.

[REDACTED] was told that we are getting two FRT-30 transmitters  
and five FRR-48 receivers which we will operationally evaluate.  
This evaluation will probably be carried on with SAC and RADU.

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[REDACTED] was asked to tell us what points should be  
covered in this operational evaluation.

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Project #4 was to submit an addendum to the task on the RT-4  
transmitter. This addendum was for the design of a modulator to  
be used with the RT-4. Both high and low level modulation should  
be investigated. This may require changes to the RT-4 which will  
include terminal strips and connectors to attach the modulator.  
The modulator should also contain a keyed audio oscillator for  
break-in MCW.

The problem of priorities was discussed. [REDACTED] requested that the  
extending the range of the 231-D be given first preference. [REDACTED] said  
the determining of the power output of the URT-11 could be done without such  
additional effort and in conjunction with the present URT-11 power supply  
investigation. Project #4 should be done before any major changes are made  
on the RT-4 as specified in the task covering that project. The synchronous  
detection study would have relative low priority except a primary report might  
be necessary concerning the operational evaluation so these points could be  
covered in discussions which will be held with members of RADU and SAC.

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DOC	9	REV	DAVE	18	MAR	1960	BY	064540
ORIG COMP	033	OR	56	VVPG	02			
ORIG CLASS	5	CLASS	2	CLASS	OC			
JUST	22	DATE	2010	FORM	MR 10-2			

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Projects #1 and #2 can be done on the retainer contract. Project #4, the RT-4 modulator, will be submitted as an addendum to the RT-4 task. [REDACTED] said he would have to determine whether the synchronous detection project could be done under the retainer contract.

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We then went to look at the bench test set-up of the URT-11 power supply. The project engineers had determined that the resistor condensor transient filter assembly could be connected across the input choke of the low voltage power supply. This reduces the transient to 0 using 60 cycle input power and to 200 voltage at 400 cycles. Connecting the filter at this point also reduces the voltage requirements of the components.

[REDACTED] said they had no way of paying for parts under the retainer contract. [REDACTED] proposed determining how many URT-11 transmitters were in the area which would require this modification. These transmitters could then probably be modified under the services contract with [REDACTED]

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